

ABSTRACT OF THE DISCLOSURE

The present invention aims at eliminating the effects of frequency offsets between two transceivers by adjusting frequencies used during transmission.

In this invention, methods for correcting the carrier frequency and the

- 5 sampling frequency during transmission are provided, including both digital and analog implementations of such methods. The receiver determines the relative frequency offset between the transmitter and the receiver, and uses this information to correct this offset when the receiver transmits its data to the original transmitter in the return path, so that the signal received by the
- 10 original transmitter is in sampling and carrier frequency lock with the original transmitter's local frequency reference.

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